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- ☒ L1: (3) 5358708.pn.
- ☒ L7: (27) interferon adj formulation
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DBs: USPAT: US-PGUBV: EPO: JPO: DERWENT

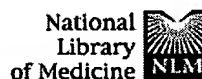
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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Class	Inventor	S	C	P	2	3
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5834254 A	19981110		Stabilized enzyme compositions for nucleic acid amplification	435/91.2	435/193 ; 435/199		Shen, Nancy Lau Liu , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 9828007 A1	19980702		STABLE LIQUID INTERFERON FORMULATIONS				DIBIASI, MARY D STAPLES, MARK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5766582 A	19980616		Stable, aqueous alfa interferon solution formulations	424/85.7			Yuen, Pui-Ho C. , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5614387 A	19970325		Method of making stabilized enzyme compositions for nucleic	435/91.2	435/193 ; 435/6		Shen, Nancy L. L. , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5602232 A	19970211		Method for producing metal-interferon- α crystals	530/351	530/419 ; 530/427		Reichert, Paul , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5556771 A	19960917		Stabilized compositions of reverse transcriptase and RNA polymerase	435/91.2	435/193 ; 435/6		Shen, Nancy L. , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5441734 A	19950815		Metal-interferon- α crystals	424/85.7	424/499 ; 424/85.1		Reichert, Paul , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5196191 A	19930323		Temporal gamma-interferon administration for allergies	424/85.5			Jardieu, Paula M.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5151265 A	19920929		Gamma interferon formulation	424/85.5	435/69.51 ; 530/351		Hwang-Felgner, Jiin-Yu , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5151265 A	19920929		Gamma interferon formulation				HWANG-FELGNER, JIIN-YU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5112605 A	19920512		Temporal gamma-interferon administration for allergies	424/85.5			Jardieu, Paula	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5004605 A	19910402		Low pH pharmaceutical compositions of recombinant	424/85.6	530/351		Hershenson, Susan , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4961969 A	19901009		Process for recovering microbially produced interferon- β	435/69.51	424/85.6 ; 530/351		Hershenson, Susan , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4851220 A	19890725		Stable oleaginous gel	424/85.7	514/784 ; 514/937		Yim, Zachary , et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4847079 A	19890711		Biologically stable interferon compositions comprising	424/85.7	424/85.4		Kwan, Henry K. H.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 8904177 A1	19890518		GAMMA INTERFERON FORMULATION				HWANG-FELGNER, JIIN-YU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4824674 A	19890425		Alpha-interferon formulations - in which non-lyophilised dry				IN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 8902750 A1	19890406		PHARMACEUTICAL COMPOSITIONS OF				TAFORO, TERRANCE THOMSON, JODY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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Semin Immunol. 1998 Oct;10(5):383-90. Review.

PMID: 9799713 [PubMed - indexed for MEDLINE]

☐ 2: [Utsumi J, Mizuno Y, Hosoi K, Okano K, Sawada R, Kajitani M, Sakai I, Naruto M, Shimizu H.](#)

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Characterization of four different mammalian-cell-derived recombinant human interferon-beta 1s. Identical polypeptides and non-identical carbohydrate moieties compared to natural ones.

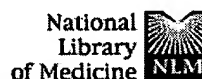
Eur J Biochem. 1989 May 15;181(3):545-53.

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Lakartidningen. 1998 Dec 2;95(49):5623-7, 5630. Review. Swedish.

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☐ **2: Eppstein DA, Van der Pas MA, Gloff CA, Soike KF.**

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Liposomal interferon-beta: sustained release treatment of simian varicella virus infection in monkeys.

J Infect Dis. 1989 Apr;159(4):616-20.

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☐ **3: Igawa T, Maitani Y, Machida Y, Nagai T.**

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Effect of absorption promoters in intranasal administration of human fibroblast interferon as a powder dosage form in rabbits.

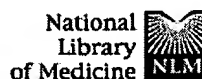
Chem Pharm Bull (Tokyo). 1989 Feb;37(2):418-21.

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Aboagye-Mathiesen G, Toth FD, Dalsgaard AM, Petersen PM, Zachar V, Ebbesen P.

Department of Virus and Cancer, Danish Cancer Society, Aarhus.

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Human placental trophoblasts, fibroblasts and the trophoblast-derived malignant cell JAR are potent producers of interferons (IFNs) when stimulated with Sendai virus. The three cell lines produced different levels and compositions of IFN-alpha subtypes and IFN-beta. Anti-IFN globulins, Cibacron Blue F3GA and Concanavalin A were covalently immobilized on pressure-stable, macroporous polymeric matrices derivatized with vinyl sulphone (HEMA-BIO 1000 VS and HEMA 1000 VS). These supports were packed in biocompatible PEEK columns and were coupled with switching valves, to develop a tandem high-performance affinity chromatographic (HPAC) method for the isolation, purification and biochemical characterization of the IFNs produced in Sendai virus-stimulated human placental trophoblasts, fibroblasts and trophoblast-derived malignant cell, JAR, cultures. Silver-stained SDS-PAGE and gel densitometric analysis revealed the purity of the purified proteins to be between 94 and 98%. Specific activities of the purified IFNs ranged between $0.37\text{--}2.76 \times 10^8$ IU/mg of protein with cumulative recoveries between 90 and 92.2%. The purified IFN components exhibited quantitatively different antiviral activities in human and bovine cell lines. The utility of the tandem method for the purification and characterization of human type 1 IFNs produced from other cell lines are also discussed.

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